

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-029072

(43)Date of publication of application : 06.02.2001

(51)Int.Cl.

C12N 15/09

C12Q 1/68

G01N 21/78

G01N 33/50

(21)Application number : 11-203576

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(22)Date of filing : 16.07.1999

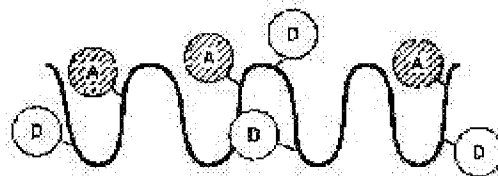
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(54) DETECTION OF NEW SYNTHESIS OF NUCLEIC ACID

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for detecting a new synthesis of a nucleic acid in a synthetic system of the nucleic acid.

SOLUTION: This method for detecting a new synthesis of a nucleic acid in a nucleic acid synthetic system comprises adding a fluorescence-labeled nucleic acid monomer labeled with a donor fluorescent pigment D and a fluorescence-labeled nucleic acid monomer labeled with an acceptor fluorescent pigment A to the synthetic system of the nucleic acid, taking both of these nucleic monomers used as substrates into the nucleic acid synthetic system, inducing fluorescence resonance energy transfer(FRET) from the donor fluorescent pigment D closely arranged by being taken into the nucleic acid molecule to the acceptor fluorescent pigment A and detecting fluorescence based



on FRET.

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## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]